

## Claims

- 1 Multi-phase linear motor (1) that comprises a number of magnets (2i) arranged side by side with multiple phase coils (3i) in which alternating currents that are offset by a predetermined value are made to flow, whereby the interaction between said magnets (2i) and said phase coils (3i) causes a relative linear displacement of magnets (2i) with respect to phase coils (3i), characterized by the fact that said phase coils (3i) lie on an axis (L) that is perpendicular to the direction of motion.
2. Linear motor according to Claim 1, wherein especially said motor is of the multi-phase type and is designed in such a way that each phase coil (3i) acts on a different magnetic trace (4n) that is not the same as those of other phase coils (3i).
3. Linear motor according to Claim 1, wherein in particular said motor does not have all of phase coils (3i) that interact on the group of magnets (12i).